(No Model.)

J. FARMER.

SELF ADJUSTING DRILL FRAME.

No. 458,526. Patented Aug. 25, 1891.

Fig. 1.

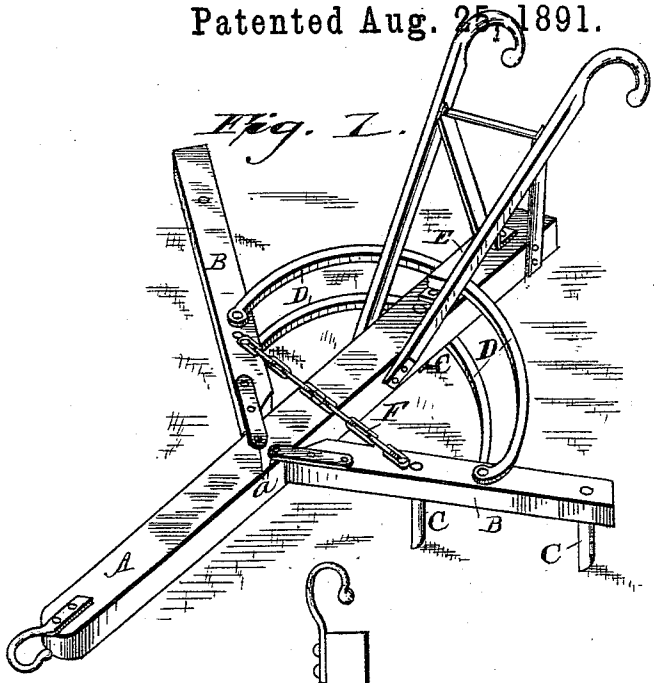


Fig. 2.

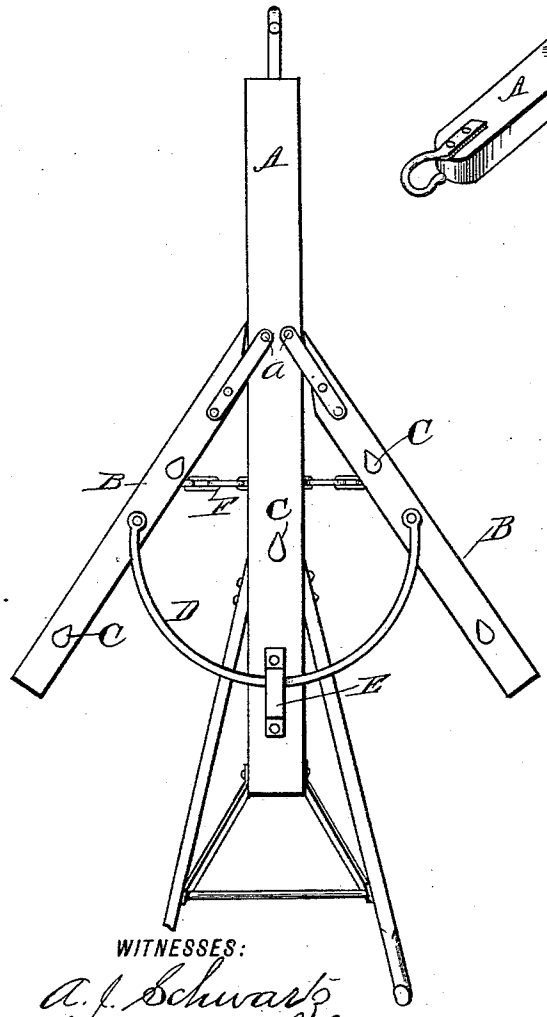
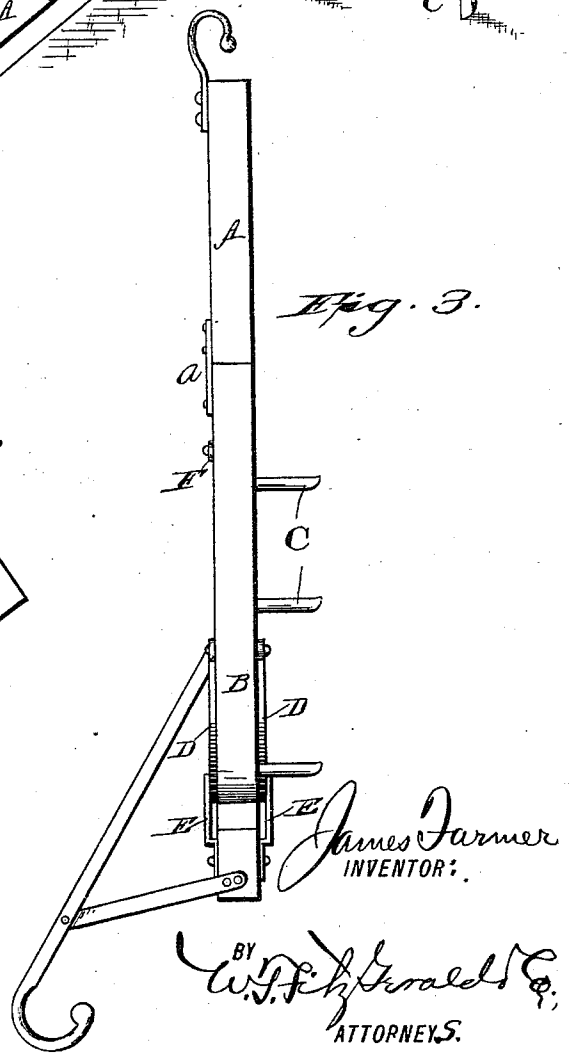


Fig. 3.



WITNESSES:

A. J. Schwartz

J. Fred. Reilly

James Farmer
INVENTOR.

BY W. J. Fitzgerald & Co.
ATTORNEYS.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JAMES FARMER, OF BARRY, ILLINOIS.

SELF-ADJUSTING DRILL-FRAME.

SPECIFICATION forming part of Letters Patent No. 458,526, dated August 25, 1891.

Application filed January 23, 1891. Serial No. 378,849. (No model.)

To all whom it may concern:

Be it known that I, JAMES FARMER, a citizen of the United States, residing at Barry, in the county of Pike and State of Illinois, have invented certain new and useful Improvements in Self-Adjusting Drill-Frames; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention consists in a new and improved self-adjusting drill-frame for wheat-drills, which will adjust its width automatically, and which will be hereinafter fully described and claimed.

Referring to the accompanying drawings, Figure 1 is a top perspective view of my new and improved self-adjusting drill-frame for wheat-drills. Fig. 2 is a bottom plan view of the same. Fig. 3 is a side elevation.

The same letters of reference indicate corresponding parts in all the figures.

Referring to the several parts by letter, A indicates the center piece of the drill-frame, to which are pivotally secured by bolts *a* the inner ends of two wings or side pieces B B. Both the center piece A and the side pieces B B are provided with the usual drill-teeth C. The rear diverging ends of the side pieces B are pressed outward from the rear part of the main piece A by means of a suitable spring or springs. In the drawings I have shown two springs D D, one arranged above and the other below the center and side pieces A and B, these springs being curved into a half-circle and having their ends bolted to the side pieces B. The central parts of the springs D pass through guides E, secured on the under and upper side of the rear end of the center piece A. It will be seen that these springs will press the wings or side pieces B B outward, and the extent of their outward movement is regulated by chains F, which are secured to the center piece A and to the side pieces B B at the points shown. It will now be seen that the springs will freely yield to enable the pivoted side pieces of the drill-frame to move inward, and thus adjust themselves and the width of the drill-frame to the width of the space between the rows of corn where the drill is being used for seeding wheat in corn.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination, in a self-adjusting drill-frame, of the center piece A, the side pieces B, pivotally secured thereto at their forward ends, the curved springs D, secured at their ends to the side pieces B B and passing through guides E on the center piece A, and the chains F, secured to the center and side pieces, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES FARMER.

Witnesses:
L. N. WORSHAM,
IRA W. SHELLEY.